

LAT, Z.

Distr: 4E3c 2 cys/4E2b(v)

✓ Principles of ventilation and heating in nuclear plants.^{1/9}
Jan Kvasnička and Zdeněk Lát (Energoprojekt, Prague).
Jaderná energetika 5, 377-72 (1980).—This summary, compiled
both from the literature and the authors' experience, dis-
cusses the maintenance of pressure differences between
rooms with a different degree of contamination, heating with
the waste heat of a reactor, typical examples of ventilation
equipment, rate of air circulation for different types of in-
stallation, types of filters for radioactive aerosols, and special
recommendations.

H. Newcombe

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CA LATA CZOWA, W.

The effect of sugars and alcohols on the bacterial antagonism of staphylococci. T. Lachowicz and W. Lataczowa (Państwowy Zakład Hig., Kraków, Poland). *Med.-Dokumentalna i Mikrobiol.* 3, 193-200(1951); cf. *ibid.* 1.

(1949).—The antibiotic activity of some *Staphylococcus* strains against *Salmonella*, *E. coli*, *Proteus vulgaris* and *P. vulgaris* OX-10, *P. pyogenes*, *Sh. paratyphenteriae*, *Bacillus mesentericus*, *Staph. aureus*, *S. enteriditis*, and *Corynebacterium diphtheriae* (I) was tested. Addn. of dextrose, levulose, sucrose, glycerol, and manitol increases the antibiotic activity of active *Staphylococcus* strains on gram-pos. bacteria (except I), makes them active against gram-neg. strains, and changes the inactive *Staphylococcus* strains to active. Maltose, lactose and galactose reduce the antibiotic activity of active strains. The enzymic behavior of *Staphylococcus* appears similar to that of the glucose dehydrogenase system isolated from *Penicillium notatum*.

I. Z. Roberts

LATAČ BOGDAN W.
LACHOWICZ, T.; LATACZOWA, W.

Concentration of sodium chloride and the zone phenomenon in
Quantitative Kahn test. Polski tygod. lek. 6 no.3:76-79
15 Jan 1951. (CLML 20:11)

1. Of the Institute of Bacteriology (Director--Prof. Stanislaw Legezynski, M.D.) of Krakow Medical Academy and of the National Institute of Hygiene Branch at Krakow.

Iataczowa, W.

LACHOWICZ, T.; IATACZOWA, W.

Effect of saccharides and alcohols on bacterial antagonism of
staphylococci. Med. dosw. mikrob., Warsz. 4 no. 3:306 1952. (CLML 23:3)

1. Summary of work progress presented at 11th Congress of Polish
Microbiologists held in Krakow May 1951. 2. Lodz-Krakow.

PARYSKI, Edwin; KULIG, Andrzej; LATAK, Zofia

Omental index and its significance in experimental tuberculosis.
Gruzlica 27 no.8:947-953 S '59.

1. Z Sanatorium Przeciwgruzliczego im. T. Chalubinskiego w Zakopanem. Dyrektor: dr E. Paryski i z Zakladu Anatomii Patologicznej A.M. w Krakowie. Kierownik: prof.dr J. Kowalczykowa.

(TUBERCULOSIS exper.)
(OMENTUM pathol.)

HORNUNG, Stanislaw; KOWALCZYKOWA, Janina; PARYSKI, Edwin; KULIG, Andrzej;
LATAK, Zofia; POLONCZYK, Mieczyslaw; WASOWICZ, Anna

The course and morphological picture of experimental tuberculosis
in guinea pigs produced by the strains of Mycobacterium tuberculo-
sis isolated from patients treated by IHH. Grurlica 27 no.7:621-
640 Jl.'59.

1. Z Kliniki Ftyzjatrycznej A.M. w Krakowie. Kierownik: prof.dr
S. Hornung; z Zakladu Anatomii Patologicznej w Krakozie. Kierownik:
prof.dr J. Kowalczykowa i Z Sanatorium im. Chalubinskiego w Zakopa-
nem. Dyrektor: dr E. Paryski.

(TUBERCULOSIS exper.)

IATAL, A.

Nondestructive testing methods help to increase the quality
of building elements and constructions. Stavivo 41 no. 12:
455-456 D '63.

1. Technicky a zkusebni ustav stavebni, Praha.

LATAL, Frantisek, inz.

Experience of a socialist work brigade in the operation
of electrostatic separators. Energetika Cz 14 no. 4:
183 Ap '64.

1. Elektrarna Hodonin National Enterprise.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720020-1

LATAL, Ivo, inz.

Design of the east-west railroad line on Slovak territory. Zel dop
tech 12 no.5:133 '64.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720020-1"

LATAL, Ivo, inz.

General locomotive repairs show the efficiency of our work.
Zel dop tech 12 no.9:252-253 '64.

LATAL, Ivo, inz.

Horizontal movement of pillars of a long bridge in the Soviet Union. Inz stavby 12 no.10:464-465 0 '64.

KRULIS, J., inz.; LATAL, J.

Light concretes resistant to high temperatures. Stavivo
41 no. 12: 434-435 D '63.

1. Teplotechna, n.p., konstrukcni a vyvojove stredisko,
Olomouc.

L 40557-65 EWP(x)/EWP(w)/EWP(v)/T-2/EWP(k) Pf-4 EM
ACCESSION NR: AP5002855 Z/0059/64/000/002/0015/0019

22
21
25

AUTHOR: Latal, S. (Engineer, Lieutenant colonel)

TITLE: Some conclusions from the solution of an axial symmetric approximation of flow through a radial compressor rotor, friction being considered

SOURCE: Letnany. Vyzkumny a zkusebni letecky ustav. Zpravodaj VZLU, no. 2, 1964,
15-19

TOPIC TAGS: turbine design, radial compressor, compressor flow, flow approximation, axiosymmetric approximation, flow friction, air flow, Navier Stokes equation

ABSTRACT: This empirical study of air flow in the rotor chamber of an experimental radial air compressor includes the effects of hydraulic loss by friction and represents an attempt to increase exit velocity and thus decrease losses in the diffuser of a gas turbine. The Navier-Stokes equation for viscosity is solved through analysis of vectors, centripetal and Coriolis acceleration and thermodynamic effects on a steady flow. On the supposition that heat gradients have no peripheral component in the compressor chamber, and that the gradient entropy can arise only from friction, it is evident that the vector $w \times$ rot c also has no peripheral component and that vector rot c must lie in a flow plane caused by the stream around the compressor axis and can have no component in a plane

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ACCESSION NR: AP5002855

normal to the rotation face. This deduction is then applied to the solution of the axial-symmetric approximation of flow around the rotor and the effects of friction and temperature on stream widths in rotating areas. The contour of the most efficient theoretical air channel was compared with measurements of an actual compressor channel made in the engine laboratory at the Vojenska akademie A. Zapotockeho (A. Zapotocky Military academy) and found to be highly similar. Fig. 1 of the Enclosure gives the functions of the measured channel $f_1(n)$ compared with the theoretical ideal channel $1 - \ln \frac{x}{b_2}$.

Other means of increasing the air flow rate include raising the pressure at the intake, adding axial stages in series, arranging foils to produce turbulence in the direction of rotation, installing a curved exhaust, and developing foils with tips lying in a different rotation plane, as shown in Fig. 2 of the Enclosure. Orig. art. has: 6 figures and 12 numbered formulas.

ASSOCIATION: none

SUBMITTED: 03

ENCL: 02

SUB CODE: PR, ME

NO REF SOV: 001

OTHER: 001

Card 2/4

LATAL, Vitezslav

How to ensure the reduction of the stock of products.
Podn org 18 no.12:549-553 D '64.

1. Unicovske strojirny, Unicov.

MANN, M.; MUDr., CSc.; LATAL, Z.

Contribution to the surgical treatment of malleolar fractures.
Acta chir. orthop. traum. Cech. 32 no.2:172-176 Ap'65.

1. Chirurgicke oddeleni n rocnice v Novem Meste na Morave
(vedouci: MUDr. M. Mann, CSc.).

LATALA, Edward

LATALA, Edward (adres autora: Krakow, ul. Chrobrego 3)

Case of bilateral infectious hydronephrosis due to a supernumerary vessel. Polski przegl. chir. 26 no.2:133-136 F '54.

Z kliniki Urologicznej Akademii Medycznej w Krakowie. Kierownik:
prof. Dr St. Laskownicki. (Praca wpłynęła do redakcji dnia 16.X.1952)
(HYDRONEPHROSIS, surgery,
*implantation of ureter into renal pelvis)
(URETERS, surgery,
*implant, kidney pelvis, in hydronephrosis)

LATALA, EDWARD

LATALA, Edward (Krakow, ul. B.Chrobrego 3)

Malignant renal tumors in children; adenomyosarcoma embriionale
s. tumor Wilms. Polski przegl. chir. 26 no.4:329-336 Ap '54.

l. Z Urologicznej Kliniki Akademii Medycznej w Krakowie.

Kierownik: prof. dr St.Jaskownicki.

(KIDNEYS, neoplasms,

*nephroblastoma in child., surg.)

(NEPHROBLASTOMA,

*kidneys, in child., surg.)

LATALA, Edward

Surgical treatment of ectopia vesicas. Polski przegl. chir. 26
no.10:903-910 Oct 54.

1. Z Kliniki Urologicznej Akad. Med. w Krakowie; kierownik:
prof. dr. St.Laskownicki.

(BLADDER, abnormalities
exstrophy, surg.)

(ABNORMALITIES
bladder exstrophy, surg.)

LASKOWNICKI, Stanislaw; LATALA, Edward

Excision of the upper pole of the kidney in a case of tumor.
Urol. polska 9:131-135 1956.

1. Z Kliniki Urologicznej A.M. w Krakowie, Kierownik: prof.
dr. Stanislaw Laskownicki.
(KIDNEYS, neoplasms,
surg., excis. of upper pole (Pol))

LATALA, Edward; PAZDOR, Franciszek

Clinical value of dextran polfa as a blood substitute.
Polski przegl. chir. 28 no.3:251-260 Mar 56.

1. Z Kliniki Urologicznej A.M. w Krakowie Kierownik: prof.
dr. S. Laskownicki, E. Latala, Krakow, ul. Boleslawa Chrobrego
3. F. Pazdor, Krakow, ul. Twardowskiego 41.
(DEXTRAN,
value of prod. synthetized in Poland (Pol))

LAKOWNICKI, Stanislaw; LATALA, Edward; OSZACKI, Jan

Injuries of the aorta and femoral artery during renal surgery. Polski
przegl. chir. 31 no.4:461-464 Apr 59.

l. Z Kliniki Urologicznej A. M. w Krakowie Kierownik: prof. dr St.
Laskownicki.

(KIDNEYS, surg.) (AORTA, wds. & inj.)
(FEMORAL ARTERY, wds. & inj.)

GOLAJEWSKI, Andrzej; LATALA, Edward

Treatment of skin avulsion from the penis. Polski przegl. chir.
33 no.11a:1433-1435 '61.

1. Z Kliniki Urologicznej AM w Krakowie Kierownik: prof. dr S.Laskownicki.
(PENIS vds and inj)

LEJMBACH, Z.; IATALLO, Z.

Studies on hormones of the thymus. Pediat. polska 27 no. 3:309-314 Mar
1952. (GIML 23:2)

1. Of the State Hospital Pediatric Clinic (Director -- Prof. W. Szenajch,
M.D.) in Warsaw.

LATALLO, Zbigniew

LATALLO, Zbigniew (Warszawa, Dzialdowska 1/3)

Streptokinase and streptodornase in inflammatory processes.
Pediat. polska 29 no.3:305 311 Mr '54.
(STREPTODORNASE AND STREPTOKINASE, therapeutic use,
*inflamm.)
(INFLAMMATION, therapy,
*streptodornase & streptokinase)

LATALLO Z.

KROTOCHWIL-SKRZYPKOWA, Maria; LATALLO, Zbigniew

Observations on the effect of antistine on erythrocyte sedimentation rate. Pediat. polska 29 no.7:693-701 July 54.

1. Z Kliniki Chorob Zakaznych Wieku Dzieciecego Akademii Medycznej w Warszawie. Kierownik: prof. dr med. J. Bogdanowcz.

(BLOOD SEDIMENTATION, effect of drugs on,

antihistaminica)

(ANTIHISTAMINICS, effects,

on blood sedimentation)

LATALLO, Zbigniew; RADLOWSKA, Zofia

Case of idiopathic dilatation of the common bile duct in 2-year old child. Pediat.polska 30 no.7:577-580 July '55.

1. Z Kliniki Diagnostyki Chorob Dzieci A.M. w Warszawie. Kierownik: prof.dr med. Z. Lejmbach i z Kliniki chirurgii Dziecięcej A.M. w Warszawie Kierownik: prof.dr med. J. Kossakowski dr Zofia Radłowska Lesna Podkowa, ul. Brwinowska 13.

(BILE DUCT, COMMON diseases,
dilat.in inf.)

3
284
355. Plasminogen and plasmin. I, II. E. Kowalew, Z. Latalo and S. Niewiarowski *Acta Biochim. Polon.*, 1958, 6, 57-105, 109-118 (Lab. Clin. Biocieim. Inst. Lekarski, Poland). - I. The process of activation of plasminogen by streptokinase was investigated, the amount of plasmin formed being determined by its fibrinolytic activity. The optimum content of streptokinase is 160-180 units/ml, the optimum reaction time being 0-20 min at 27° and more at 10°. The formation of plasmin is accompanied by simultaneous deactivation proportional to the original activity and with a similar pH optimum (7.5-8.1), due to the presence of a proteolytic enzyme. Casein, globin and CuSO₄ inhibit the fibrinolytic activity of plasmin and prevent its deactivation. Deactivation is accompanied by the accumulation of trypsin. On the basis of kinetic data the plasminogen-streptokinase reaction is a reversible process. It was also found that during incubation with streptokinase plasminogen loses its ability to activate trypsin.

II. In the investigation of the effect of metal ions on the activity of plasmin, it was found that Cu⁺, Pb²⁺, Hg²⁺, As³⁺, Ni²⁺ and Cd²⁺ act as inhibitors, 50% inhibition being obtained at metal ion concn. of the order 10⁻⁴ M. This effect does not appear to be due to -SH group blocking as iodoacetic acid amide, ad. H₂O₂ etc. are not inhibitory. The real cause may be protein aggregation due to combination with metal ions via carboxyl groups. Inhibition is greatest at low pH. The reaction with Cu⁺ is reversible, depending on the concn. of inhibitor, enzyme, and substrate; full activity is restored on treatment with versene. (Polish) A. K. Gazykowska

KOWALSKI, Edward; LATALLO, Zbigniew; NIEWIAROWSKI, Stefan

Plasmonogen and plasmin. II. Effect of metal ions on action of
plasmin. Acta biochim. polon. 3 no.1:109-118 1956.

1. Z pracowni Biochemii Klinicznej Instytutu Hematologii
Kierownik pracowni: Doc. dr. E. Kowalski, Dyrektor Instytutu:
Doc. dr. A. Trojanowski.

(FIBRINOLYSIN,
eff. of metal ions. (Pol))

(METALS, effects,
on fibrinolysin. (Pol))

KOWALSKI, E.; KOPEC, M.; LATALIO, Z.; ROSZKOWSKI, S.; SENDYS, N.

Plasminogen-like bodies in human blood vessels. Polski tygod. lek.
11 no.35:1536 27 Aug 56.

1. (Z pracowni Biochemii Klinicznej Instytutu Hematologii;
kierownik: doc. dr. med. E. Kowalski) Warszawa ul. Chocimska
5, Institut Hematologii.

(FIBRINOLYSIN,

profibrinolysin-like bodies in blood vessels (Pol))

(BLOOD VESSELS, physiology,

profibrinolysin-like bodies in vasc. walls (Pol))

EXCERPTA MEDICA Sec. Vol.10/12 Phy.Biochem. Dec. 57
LATALLO Z.

5313. LATALLO Z., PANASEWICZ J., CIEŚLAK J. and CHMIELEWSKA I. Dept. of Organ. Chem., Warsaw Univ.; Lab. of Clin. Biochem. and Physio-Pathol. Dept., Inst. of Haematol., Warsaw. *Vitamins and antivitamins K. Anticoagulant activity of 3(1'-phenylalkyl)-4-hydroxycoumarins and 3(2'-phenylalkyl)-4-hydroxycoumarins BULL.ACAD.POLON.SCI. 1957, 5/1 (5-8) Graphs 1 Tables 2 Illus. 8

The anticoagulant activities of 4 compounds of the above types were tested by i.v. or oral administration to rabbits. One of them [3-(1-phenylbutyl)-4-hydroxycoumarin] showed an activity even greater than that of dicoumarol.

Steyn - Pretoria

IATALLO, Z.

Further studies on activation of plasminogen. Acta physiol. polon.
8 no.3:412-413 1957.

1. Z Pracowni Biochemii Klinicznej Instytutu Hematologii w Warszawie
Kierownik: doc. dr E. Kowalski.
(FIBRINOLYSIN,
profibrinolysin, activation (Pol))

KOWALSKI, E.; LATALLO, Z.; NIEWIAROWSKI, S.; MARCZAK, R.; PAJASIEWICKI, J.

Effect of plasmin and of streptokinase on blood coagulation in cat
in vivo. Polski tygod. lek. 12 no.32:1221-1226 5 Aug 57.

1. (Z Pracowni Biochemii Klinicznej i Zakladu Fizjonalistologii Instytutu
Hematologii w Warszawie; wykredtor Instytutu: doc. dr med. A. Trejanowski).
Adres: Warszawa, ul. Chocimska 5.

(FIBRINOLYSIN, effects,

on blood coagulation in cats (Pol))

(STREPTOKINASE AND STREPTOKINASE, effects,

on blood coagulation in cats (Pol))

(BLOOD COAGULATION, effect of drugs on,

fibrinolysin & streptokinase (Pol))

IATELIO, Z.; DANCEWICZ, A.M.; MUSIALOWICZ, T.

Effect of ionizing radiation on the blood clotting in vitro. Acta biochem.
polon. 5 no.3:225-233 1958.

1. Institute of Nuclear Research, Department of Health Protection and
Institute of Haematology, Laboratory of Clinical Biochemistry, Warszawa,
Chief: doc. dr. E. Kowalski.

(BLOOD COAGULATION, effect of radiations,
x-rays in vitro (Pol))

(ROENTGEN RAYS, effects,
on blood coagulation in vitro (Pol))

HIEWIAROWSKI, Stefan, LATALLO, Zbigniew

Mechanism of action of enzymes. Postepy hig.med.dosw. 12 no.1:21-31
1958

1. Instytut Hematologii Pracownia Biochemii Klinicznej. Adres: Warszawa,
ul. Chocimska 5).

(ENZYMES, effects,
review (Pol))

NIEWIAROWSKI, Stefan; CETNAROWICZ, Halina; IATALLO, Zbigniew; SABLINSKI, Jan
przy współpracy technicznej J. Stachurskiej, T. Teper i T. Piechockiej)

Studies on hemophilia in Poland. I. Results of clinical & laboratory
tests in 111 cases. Polski tygod. lek. 13 no.52:2101-2107 29 Dec 58.

1. (Z Foradni dla Chorych na Hemofilie; kier. dr S. Niewiarowski, z
Pracowni Biochemii Klinicznej i Oddzialu Chorob Wewnetrznych; kierownik
doc. dr E. Kowalski przy Instytucie Hematologii; dyrektor doc. dr A.
Torjanowski). Adres: Warszawa, ul. Chocimska 5, Inst. Hematologii.
(HEMOPHILIA, epidemiol.

in Poland, clin. & laboratory tests (Pol))

IATALLO, Zbigniew; NIEWIAROWSKI, Stefan; SABLINSKI, Jan

Studies on hemophilia in Poland. II. AH & Christmas factor deficiency with prolonged bleeding time (vascular hemophilia A & B). Polskie tygod. lek. 14 no.1:1-3 5 Jan 59.

1. (Z Poradni dla chorych na hemofilie; kierownik: dr S. Niewiarowski i z Pracowni Biochemii Klinicznej; kierownik: doc. dr E. Kowalski - Instytutu Hematologii: dyrektor: doc. dr A. Trojanowski) Adres: Warszawa, Chocimaka 5, Instytut Hematologii.

(HEMORRHAGIC DIATHESIS, epidemiol.
vasc. hemophilia A & B in Poland (Pol))

KOWALSKI, Edward; KOPEC, Maria; LATALLO, Zbigniew; ROSZKOWSKI, Stanislaw;
SEMDYS, Natalia

Tissue fibrinolysis. Polskie arch. med. wewn. 29 no.4:451-458
1959.

1. Z Pracowni Biochemii Klinicznej i Oddzialu Wewnetrznego Kierownik:
doc. E. Kowalski Instytutu Hematologii Dyrektor: doc. dr med. A.
Trojanowski.
(FIBRINOLYSIS)

LATALLO, Zbigniew; NIEWIAROWSKI, Stefan

Comparative studies on fibrinolytic systems of human, ox and
guinea pig sera. Polskie arch. med. wewn. 29 no.4:461-463 1959.

1. Z Pracowni Biochemii Klinicznej Kierownik: doc. dr med. E.
Kowalski Instytutu Hematologii w Warszawie Dyrektor: doc. dr
med. A. Trojanowski
(FIERINOLYSIS)

LATALCO, Z.

12

RECAISYI, J.
BURAKOW (in caps); Given Name

Country: Poland

Academic Degrees: not given

First Division of Internal Diseases, Municipal Hospital No 4
Affiliation: (I Oddzial Chorob Wewnetrznych Szpitala Miejskiego Nr 4), Warsaw
Ordynator: W. KOSINSKI, Docent, dr. med.; and Clinical Biochemistry Laboratory,
XXXXXX Institute of Hematology (Pracownia Biochemii Klinicznej Instytutu
Hematologii), Warsaw, Director: Prof E. KWALEK, dr med.

XXXXXX Source: Warsaw, Prieglad Lekarski, No 5, 1961, pp 206-207.

Data: "Disturbances in Blood Clotting in a Case of Post-splenectomy
Thrombocytosis."

Co-authors:

CENTAROWICZ, H. Department of Internal Diseases (Oddzial Chorob Wewnetrznych)
and Clinical Biochemistry Laboratory, Institute of Hematology, Warsaw

KRYKOWSKI, Z.

LATALCO, Z. Institute of Hematology (Instytut Hematologii), Warsaw
Director: Docent A. TROJANOWSKI, dr med

NIEVIAROWSKI, S.

LATALLO, Z.

KOWALSKI, F.
SURNAME (in copy); Given Names

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Klinicznej) and the Department of Internal Diseases (Oddział Chorób
Wewnętrznych), Institute of Hematology (Instytut Hematologii), Warsaw; Director;
KEDZIAK Docent A. TROJANOWSKI, dr med
Source: Warsaw, Przegl. Lekarski, No 5, 1961, p. 212.
Data: "Investigation on the Provocation of the Picture of Dysproteinemia by the
Action of Plasma on Fibrinogen." (Abstract)

Co-authors:

BUDZYNSKI, A.

KOPEC, Maria, Clinical Biochemistry Laboratory and the Department of Internal
Diseases, Warsaw; Director: Prof. E. KOWALSKI, dr med

MURAWSKI, K.

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Source: Warsaw, Przegląd Lekarski, No 5, 1961, pp 212-213.
Data: "Biologically Active Products of Fibrinolysis."

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Co-authors:

KOPEC, Maria, Clinical Biochemistry Laboratory and the Department of Internal Diseases, Warsaw; Director: Prof E. KOWALSKI, dr med.
LATALLO, Z., Department of Clinical Biochemistry (Zakład Biochemii Klinicznej), Warsaw; Director: Prof E. KOWALSKI, dr med.
NIEWIADOWSKI, S.
WALEWSKA, I., Dr. med, r.o. [] Director of the Department of Serology,
Institute of Hematology (Zakład Serologii Instytutu Hematologii),
Warsaw; Director: Docent A. TRAJANOWSKI, dr. med.

~~LATALLO, Z.~~

~~SOURCE (in caps); Given Name~~

Country: Poland

Academic Degrees: [not given]

Affiliation: Institute of Hematology (Instytut Hematologii), Warsaw; Director:
Docent A. TROJANOWSKI, dr med
Source: Warsaw, Przeglad Lekarski, No 5, 1961, pp 213-214.

Data: "Investigations on the Factor Responsible for Haemagglutination in the
Kissmeyer-Nielson Reaction."

Co-author:

WALEWSKA, I., dr med., p.o. /?/, Director of the Department of Serology,
Institute of Hematology (Zaklad Serologii Instytutu Hematologii), Warsaw;
Director: Docent A. TROJANOWSKI, dr. med.

LATALLO, Z.

CHWARTOWICZ, H.
SURNAME, Given Names

Country: Poland

Academic Degrees: [not given]
Affiliation: Department of Internal Diseases (Oddzial Chorob Wewnętrznych) and Clinical
Biochemistry Laboratory (Pracownia Biochimii Klinicznej), Institute of
Hematology (Instytut Hematologii), Warsaw; Director: Docent A. TROJANOWSKI,
dr med
Source: Warsaw, Przeglad Lekarski, No 5, 1961, p. 218.
Data: "Some Rare Hemorrhagic Diathese."

Co-authors:

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Laboratory, Warsaw.

LATALLO, Z., Institute of Hematology, Warsaw
ZIVICKA, H.

KWAŁEK, E., Dr med., Head of the Department of Internal Diseases and
Clinical Biochemistry Laboratory, Institute of Hematology, Warsaw;
Director: Docent A. TROJANOWSKI, dr med

(PP 414)

CETNAROWICZ, Halina; LATALLO, Zbigniew; PIECHOCKA, Teresa; ZALUSKA, W.

A case of congenital factor V deficiency. Pol. med. wewnet. 32 no.7:
757-759 '62.

1. Z Instytutu Hematologii w Warszawie i z Poradni dla Chorych na Hemo-
filie w Warszawie Kierownik: doc. dr med. W. Trojanowski.
(HEMORRHAGIC DIATHESIS)

LATALLO, Zbigniew

Effect of products of the proteolytic decomposition of fibrinogen
on the polymerization of fibrin. Pol. med. wewnet. 32 no.7:723-724
'62.

1. Z Instytutu Hematologii i Instytutu Badan Jadrowych w Warszawie.
(FIBRIN) (FIBRINOGEN)

LATALLO, Zbigniew

The problem of blood coagulation in extracorporeal dialysis.
Pol. arch. med. wewnet. 33 no.8:953-956 '63.

(KIDNEY, ARTIFICIAL) (BLOOD COAGULATION)

WEGRZYNOWICZ, Zenon; KOPEC, Maria; LATALLO, Zbigniew; KOWALSKI, Edward

Studies on the coagulation and fibrinolytic system in
lethally irradiated dogs. Arch. immun. ther. exp. 12 no.4
524-533 '64

1. Department of Radiobiology and Health Protection, Institute
of Nuclear Research, Warsaw.

KUBICKI, Stefan; LATALLO, Zbigniew; KACNER, Joanna; DOROBA, Krystyna;
WASILEWSKA, Helena.

Evaluation of the antithrombin test and the starch tolerance
test in the diagnosis of pancreatic diseases. Pol. tyg. lek.
19 no.42:1593-1596 19 0 '64

1. Z Oddzialu Chorob Wewnetrznych Centralnego Szpitala Kli-
nicznego MSW w Warszawie (kierownik: prof. dr. med. Stefan
Kubicki) i z Laboratorium Centralnego Szpitala Klinicznego
MSW w Warszawie (kierownik: dr. farm. Mieczyslaw Trzaski).

LIPINSKI, B.; BUDZYNSKI, A.Z.; LATALLO, Z.S.; KOWALSKI, E.

Isolation and characterization of cold-insoluble fibrinogen complex from bovine plasma. Acta biachim. Pol. 11 no.4:
527-534 '64.

1. Department of Radiobiology and Health Protection, Institute of Nuclear Research, Warsaw.

LATALSKI, Maciej

The effect of chorionic gonadotropin on the Golgi elements in the ova of the white rat (Rattus rattus L. albino). Ann.Univ.Lublin; sec.D 14:51-58 '59.

1. Z Katedry Histologii i Embriologii Wydziału Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanisław Grzycki.

(GOLGI APPARATUS pharmacol)
(GONADOTROPINS CHORIONIC pharmacol)
(OVUM anat & histol)

LATALSKI, Maciej

Influence of X-rays irradiation of the central nervous system on
the isles of Langerhans in the pancreas. Ann. univ. Lublin sec.D
15:87-90 '60.

1. Z Katedry i Zakladu Histologii i Embriologii Wydzialu Lekarskiego
Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanislaw
Grzycki.

(CENTRAL NERVOUS SYSTEM radiation eff)

(ISLANDS OF LANGERHANS physiol)

(RADIATION INJURY exper)

LATALSKI, Maciej

Investigations on ribonucleic acid and sulfhydryl groups. Ann.
Univ., Lublin sect.D 16:27-42 '61.

1. Z Katedry i Zakladu Histologii i Embriologii Wydzialu Lekarskiego
Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanislaw
Grzycki.

(SULFHYDRYL COMPOUNDS) (OVUM) (GONADOTROPINS CHORIONIC)
(RNA)

KUDEJKO, Jan; LATALSKI, Maciej

Dermo-epidermal functional fibers in pathologically modified
human skin. Przegl. derm. 48 no.8/10:205-211 '61.

1. Z Kliniki Dermatologicznej Akademii Medycznej w Lublinie Kierownik:
Prof. dr Cz. Ryll-Nardzewski z Zakladu Histologii i Embiologii Akademii
Medycznej w Lublinie Kierownik: Prof. dr S. Grzyeki.
(SKIN pathol) (LUPUS ERYTHEMATOSUS pathol)

BRYC, Stanislaw; LATALSKI, Maciej

A study of the influence of some opaque mediums on the ultra-structure of the vascular endothelium in the arterial vessels.
Ann. Univ. Lublin sect. D 19:17-20 '64.

1. Pracownia Mikroskopii Elektronowej AM w Lublinie (Kierownik:
prof. dr. med. Stanislaw Grzycki) i Katedra i Zaklad Radiologii,
Wydzial Lekarski, AM w Lublinie (Kierownik: doc. dr. med.
Kazimierz Skorzynski).

LATANOVA, G. A.

Latanova, G. A. (Geology) Crystallographic investigation of borosilicates: datolite
and danburite. P. 85

Chair of Crystallography and
Crystallochemistry
Aug. 5, 1950

SO: Herald of the Moscow University (Vestnik), Series on Physical, Mathematical
and Natural Sciences, No. 2, Vol. 6, No. 3, 1951

LATARIYA, V.N.
TARASASHVILI, G.M.; LATARIYA, V.N.

Effect of field crops and grassland mixtures on the structural changes of compact brown soils in irrigated areas [with summary in English]. Pochvovedenie no.7:51-56 J1 '57. (MIRA 10:11)

1. Gruzinskiy sel'skokhozyaystvennyy institut, Tbilisi.
(Soil physics)

LATARIYA, V.N.

Changes in the carbon dioxide content of the soil in connection
with grassland crop rotation. Soob.AN Gruz.SSR 21 no.5:575-582
N '58.
(MIRA 12:5)

1. Gruzinskiy sel'skokhozyaystvennyy institut, Tbilisi. Pred-
stavлено членом-корреспондентом Академии D.P.Gedevanishvili.
(Soil chemistry) (Rotation of crops)

LATASH, L.P.

LATASH, L.P.

Treatment of brucellar disorders of the nervous system. Zhur.nevr.
i psikh. Supplement #17 1976 (MIRA #1:1)

1. Dossorskaya rayonnaya bol'nitsa (glavnnyy vrach L.P.Latash)
Gur'yevskoy oblasti Kazakhskoy SSR.
(BRUCELLOSIS) (NERVOUS SYSTEM--DISEASES)

EXCERPTA MEDICA Sec 2 Vol 12/8 Physiology Aug 59

3628. BACKGROUND ELECTRICAL ACTIVITY OF THE SPINAL CORD IN RABBITS (A PUNCTURE METHOD OF LEADING OFF SPINAL CORD BIOPOTENTIALS) (Russian text) - Latash L. P. - BYULL. EKSPER. BIOL. I MED. 1958, 45/9 (43-48) Graphs 3

A puncture method of leading off the biopotentials of rabbit spinal cord is described. It gives an idea of the background electroactivity of the cord in conditions approaching physiological ones. Therefore certain new data could be obtained by this method beside those formerly obtained with the cord exposed. The characteristics of the background electroactivity were determined at 2 levels where the potentials were led off; the inferior thoracic and the lumbosacral. Two types of electroactivity were revealed at the lumbosacral level. Each of these types seemed to be connected with definite forms of activity of the neuron structures of the spinal cord. Very slow fluctuations of potential (period ranging from one to several seconds) were noted in the electroactivity at this level.

LATASH, L. P.: Master Med Sci (diss) -- "The background electrical activity of the spinal cord of rabbits". Moscow, 1959. 19 pp (Acad Med Sci USSR), 210 copies (KL, No 18, 1959, 128)

GRASHCHENKOV, N.I.; LATASH, L.P.; FISHMAN, M.N.

Research on cerebral currents in diencephalic syndrome. Zhur. nevr.
i psikh. 59 no.1:32-44 '59. (MIRA 12:3)

1. Kafedra nervnykh bolezney Tsentral'nogo instituta usovershenstvovaniya
vrachey i gruppa individual'nykh rabot pri Otdelenii biologicheskikh
nauk (rukoveditel' - prof. N.I. Grashchenkov) AN SSSR, Moskva.

(DIENCEPHALON, dis.

diencephalic synd. EEG (Rus))

(ELECTROENCEPHALOGRAPHY, in var. dis.
diencephalic synd. (Rus))

17(1)

AUTHOR:

Latash, L. P.

SOV/20-128-1-55/58

TITLE:

On the Origin of Slow Potential Fluctuations in the Respiratory Rhythm ("Respiratory" Waves) in the Spinal Cord

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 205-208 (USSR)

ABSTRACT:

The analysis of the origin of slow "respiratory" waves in the spinal cord meets with considerable methodic difficulties, since the act of external respiration is composed of two parallel processes taking place more or less simultaneously. The author tried to separate the two components (bioelectric and mechanical) by means of differently directed influences. Reference 11 gives a detailed description of the working method applied. The experiments were made with 30 rabbits. The first test series in which the respiratory motor partly was put out of action, resulted in a number of facts in favor of the bioelectric component. A curare-like preparation was given to animals of the second test series. The dose was sufficient to paralyse all voluntary muscles including respiration. The results obtained gave a direct proof of the existence of slow

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SOV/20-128-1-55/58

On the Origin of Slow Potential Fluctuations in the Respiratory Rhythm
("Respiratory" Waves) in the Spinal Cord

"respiratory" potential fluctuations. The origin of slow "respiratory" waves can neither be explained by physico-chemical dislocations in the zone of deflecting electrodes, nor by respiratory fluctuations of the arterial tonus (by Traube-Gerings's waves). These explanations are proved wrong by the experimental data obtained in the analysis of slow "respiratory" waves in the thorax part of the spinal cord. Nor is it possible to explain the entity of the observed phenomena by any of the mentioned interpretations. They are absolutely plausible, however, if the existence of a corresponding bioelectric process is realized. The data obtained may be considered an evidence for the existence of a bioelectric component of slow "respiratory" waves in the spinal cord. This component apparently reflects the development of synchronized local processes in neurons of the respiratory apparatus, developing as a reaction to the arrival of a synchronized impulse discharge from the respiratory centre. There are 2 figures and 14 references, 11 of which are Soviet.

Card 2/3

SOV/20-128-1-55/58
On the Origin of Slow Potential Fluctuations in the Respiratory Rhythm
("Respiratory" Waves) in the Spinal Cord

ASSOCIATION: Gruppa chlena-korrespondenta AN SSSR N. I. Grashchenkova pri
Otdelenii biologicheskikh nauk Akademii nauk SSSR (Group of
the Corresponding Member AS USSR N. I. Grashchenkov of the
Department of Biological Sciences of the Academy of Sciences,
USSR)

PRESENTED: March 30, 1959, by I. S. Beritashvili, Academician

SUBMITTED: March 29, 1959

Card 3/3

LATASH, L. P.; KASSIL', G. N. (Moskva)

K voprosu ob uchastii retikulyarnoy formatsii stvola mozga cheloveka v
nekotorykh gomeostaticheskikh reaktsiyakh organizma

report submitted for the First Moscow Conference on Reticular Formation,
Moscow, 22-26 March 1960.

LATASH, L. P.; SOLOV'YEVA, A. D.; GRASHCHENKOV, N. I. (Moskva)

O klinicheskikh i elektroentsefalograficheskikh proyavleniyakh paroksizmal'nykh narusheniy vodrstvovaniya pri porazhenii gipotalamom-enzentsefal'noy oblasti u cheloveka.

report submitted for the First Moscow Conference on Reticular Formation,
Moscow, 22-26 March 1960.

GRASHCHENKOV, N.I.; KASSIL', G.N.; LATASH, L.P.; ORDYNETS, G.V.

Participation of the reticular formation and hypothalamic vegetative nuclei in man adaptive reactions caused by administration of small doses of adrenaline. Zhur. vys. nerv. deiat. 10 no. 1:10-18 Ja-F '60. (MIRA 14:2)

1. N.I. Grashchenkov's Research Group Section of Biological Sciences, U.S.S.R. Academy of Sciences.
(ADRENALINE) (HYPOTHALAMUS) (ADRENOCORTICAL HORMONES)

LATASH, L.P.

Changes in the spontaneous electrical activity of the spinal cord
in the rabbit under certain influences. Biul. eksp. biol. i med.
49 no. 4:3-8 Sp '60. (MIRA 13:10)

1. Iz gruppy chlena-korrespondenta AN SSSR N.I. Grashchenkova
pri Otdelenii biologicheskikh nauk AN SSSR i Instituta nevrologii
(dir. - deystvitel'nyy chlen AMN SSSR N.V. Konovalov) AMN SSSR,
Moskva.

(SPINAL CORD)

BASSIN, F.V.; LATASH, L.P. (Moksva)

"Handbook of physiology," edited by J.Field. Section 1: Neurology;
edited by H.W.Magoun. Reviewed by F.V. Bassin, L.P.Latash. Zhur.
nevr.i psikh 60 no.8:1055-1061 '60. (MIRA 13:9)
(NEUROLOGY) (FIELD, J.) (MAGOUN, H.W.)

LATASH, L. P. and SHULMAN, D. R. (Moscow, USSR)

"EEG changes in malignant exophthalmos as an indicator of the participation of mesodiencephalic structures in the genesis of the disease"

Report submitted to the 7th Intl. Congress of Neurology,
Rome, Italy, 10-15 Sep 61

LATASH, L.P.

Electroencephalographic changes following the administration
of small doses of adrenaline to healthy subjects and to
patients with disorders of the hypothalamic formation.
Zhur. nevr. i psikh. 61 no.8:1168-1175 '61. (MIRA 15:3)

1. Laboratoriya nevrogumoral'noy reguljatsii (zav. - prof.
N.I. Grashchenkov, rukovoditel' problemy - prof. G.N. Kassil')
Instituta vysshey nervnoy deyatelnosti (dir. - prof.
V.S. Rusinov) AN SSSR, Moskva.
(ELECTROENCEPHALOGRAPHY) (ADRENALINE)
(HYPOTHALAMUS--DISEASES)

LATASH, Lev Pavlovich; NAZAROV, V.A., red.; MIRONOVA, A.M., tekhn.
red.

[Electrical phenomena in the spinal cord] Elektricheskie iavleniya
v spinnom mozgu. Moskva, Medgiz, 1962. 142 p. (MIRA 15:5)
(SPINAL CORD) (ELECTROPHYSIOLOGY)

KASSIL', G.N., prof.; LATASH, L.P., kand.med.nauk

Consciousness, wakefulness, sleep. Zdorov'e & no.1:9-11
Ja '62. (MIRA 15:3)
(BRAIN--LOCALIZATION OF FUNCTIONS)

LATASH, L.P., kand.med.nauk

Headquarters of the brain. Nauka i zhizn' 29 no.4:64d-71 Ap '62,
(MIRA 15:7)
(BRAIN)

BASSIN, F.V.; LATASH, L.P.

"Handbook of physiology. Section 1. Neurophysiology, Vol. II.
American Physiological Society." Reviewed by F.V. Bassin and
L.P. Latash. Zhur. nevr. i psikh. 62 no.2:293-297 '62.

(MIRA 15:6)

(NERVOUS SYSTEM)

LATASH, L.P.; SHTUL'MAN, D.R.

Electroencephalographic analysis of exophthalmos. Trudy 1-go
MMI 24:186-202 '63 (MIR 17:3)

KASSIL', G.N.; LATASH, L.P.; RUTMAN, E.M.

Mechanism of the action of cholinergic substances introduced into
the brain ventricles. Dokl. AN SSSR 149 no.2:464-467 Mr '63.

I. Laboratoriya neyrogumoral'noy regul'yatsii AN SSSR. Predstavлено
akademikom V.N.Chernigovskim.

(PARASYMPATHOMIMETICS) (ELECTROENCEPHALOGRAPHY)

LATASH, L.P., SHTUL'MAN, D.R.

Changes in the dominating rhythm of EEG in malignant exophthalmos
and their correlation with the function of the thyroid gland.

Probl. endok. i gorm. 10 no.4:28-33 Jl-Ag '64.

(MIRA 18:6)

1. Laboratoriya nevro-gumoral'noy reguljatsii AN SSSR (zav.-
daystvitel'nyy chlen AMN SSSR N.I. Grashchenkov) i klinika
nervnykh bolezney (zav.- prof. V.V. Mikhayev) I Moskovskogo
ordena Lenina meditsinskogo instituta imeni Sechenova.

GRASHCHENKOV, N.I.; LATASH, L.P.

Role of the orienting reaction in the organization of activity.
Vop. psichol. 11 no.1:21-41 Ja-F '65.

(MIRA 18:4)

I. Laboratoriya po izucheniyu nervnykh i gumorali'nykh regul'yatsiy
AN SSSR, Moskva.

GRASHCHENKOV, N.I.; LATASH, L.P.; VEYN, A.M.

Mechanisms of sleep in the light of clinical and physiological analysis of hypersomnia. Zhur. vys. nerv. deiat. 15 no.2:393-404 Mr-Ap '65.
(MIRA 18:5)

1. Laboratoriya nervnykh i gumoral'nykh regulyatsiy AN SSSR, Moskva.

L A T A S H M. M.

KIZNETSOV, G.F., inzh.: LATASH, M.M., inzh.; MILOVANOV, inzh.;
SEREBRENNIKOV, S.S., inzh.

Erecting tunnel kilns of heat proof precast reinforced concrete
elements. Nov. tekhn. i pered. op. v stroi. 20 no.1:6-10 Ja '58.
(MIRA 11:2)

(Kilns) (Precast concrete construction)

KUZNETSOV, G.F., inzh.; LATASH, M.M., inzh.; MILOVANOV, A.P., kand.tekhn.
nauk

Operating tunnel kilns built of heat-resistant reinforced concrete panels. Nov.tekh.mont.i spets.rab.v stroi. 21 no.11:
18-21 N '59. (MIRA 13:2)

1. Glavteplomontazh, Sognzteplostroy Minstroya RSFSR, Nauchno-
issledovatel'skiy institut betona i zhelezobetona Akademii
stroitel'stva i arkhitektury SSSR.
(Kilns) (Precast concrete construction)

TOLKACHEV, P.I., inzh.; LATASH, M.M.

Assembling chimneys made of large annular blocks. Mont. i spets.rab.
v stroi. 22 no.6:7-8 Jl '60. (MIRA 13:7)
1. Trest Soyuzteplostroy.
(Chimneys)

LATASH, M.M., inzh.

Building tunnel and compartment kilns of precast fireproof
reinforced concrete. Mont.i spets.rab.v stroi. 23 no.6:22-24
Je '61. (MIRA 14:7)

1. Moskovskoye upravleniye tresta Soyuzteplostroy.
(Kilns) (Precast concrete construction) (Refractory concrete)

LATASH, M., kand.tekhn.nauk

Homograms for determining the cost of lightweight aggregates depending
on the distance over which the raw material and the finished product
must be transported. Bud. mat. i konstr. 4 no.1:46-49 Ja-F '62.

(MIRA 15:7)

(Aggregates (Building materials))

ZHUKOV, A., kand.tekhn.nauk; LATASH, M., kand.tekhn.nauk

Concretes based on light aggregates for industrial construction.
Bud. mat. i konstr. 4 no.2:1-5 Mr-4p '62. (MIRA 15:9)
(Lightweight concrete) (Industrial buildings)

LATASH, M.M., inzh.

Assembly of heat-treating furnaces from fireproof concrete
blocks. Mont. i spets. rab. v stroi. 25 no.1:24-26 Ja '63.
(MIRA 16:6)

1. Moskovskoye stroitel'no-montazhnoye upravleniye tresta
Soyuztepstroy.
(Furnaces, Heat treating)
(Concrete blocks)

LATASH, M. YA.

Methods for determination of the physico-mechanical
properties of keramit. M. Ya. Latash. Nauka i Sstroitel'.
1941. (Kiev: Izdatel' Aziad. Arkhitektury Ukr. S.S.R.).
Sbornik 1954, No. 5, 32-40; "Tekhn. Zhur., Khim.", 1956,
No. 1550.—Tables and formulas used for common heavy
concrete are not applicable to the keramit (a porous clay
slifer for cement) concrete. A method is developed for
testing the grains of keramit in a clamp of high-strength
gypsum. The strength values of the keramit grains at
tension, slip, shear, and also the adhesion to cement and
compr. are obtained. The method is applicable for determining
the properties of pumice and keramit (a slag material).
N. Vasiliev

LATASH, M.Ya., kand.tekhn.nauk.

Engineering properties of panels for walls and floors. Nov.v
stroi.tekh. no.4:136-157 '55. (MIRA 10:10)

1. Nauchno-issledovatel'skiy institut stroitel'nykh materialov
Akademii arkhitektury USSR.
(Concrete slabs) (Walls)

LATASH, M.Ya., kand. tekhn. nauk; SAKHAROVA, N.A., kand. tekhn. nauk;
ZASLAVSKAYA, T., red.; ZELENKOVA, Ye., tekhn. red.

[Porous fillers for lightweight concrete keramzit and termozit]
Poristye zapolniteli dlia legkikh betonov - keramzit i termozit;
informatsionnoe soobshchenie No.3. Kiev, Gos. izd-vo lit-ry po
stroit. i arkhit. USSR, 1957. 21 p. (MIRA 11:7)
(Lightweight concrete) (Keramzit)

KORNILOVICH, Yu.Ye.; VERZHBITSKAYA, M.G.; LATASH, M.Ya.; NICHIPORENKO, S.P., kand.tekhn.nauk, otv.red.; DANILKINA, N., red.; NEACHEIKO, tekhn.red.

[Temporary instructions for making large wall blocks using light-weight concrete, silicates, and gypsum concrete] Vremennye ukazaniia po proizvodstvu krupnykh stenovykh blokov iz legkogo betona, silikatnoi massy i gipsobetona. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1957. 56 p. (MIRA 12:1)

1. Akademija budivnytstva i arkhitektury URSR. Instytut budivel'-nykh materialiv i vyrabiv.
(Lightweight concrete) (Building blocks)

LATASH, M.Ya., kand.tekhn.nauk

Selecting a keramzit concrete mix to be used in large blocks.
Nov.v stroi.tekh. no.11:142-156 '57. (MIRA 10:12)

1. Institut stroitel'nykh materialov Akademii stroitel'stva i
arkhitektury USSR.
(Lightweight concrete--Testing)

LATASH, M. Ya.

LATASH, M.Ya., kand.tekhn.nauk.

Producing large lightweight concrete blocks using blast-furnace slag as a base. Nov. v stroi. tekhn. no.12:31-52
'57.

(MIRA 11:1)

(Concrete blocks) (Slag)

KOVTUN, Ivan Petrovich; LATASH, M.Ya., red.; SLIN'KO, B.I., red.;
LEUSHCHENKO, N.L., tekhn. red.

[Activated mortars, concretes, and products made of blast-furnace slags] Aktivizirovannye rastvory, betony i izdeliia iz domennykh shlakov. Pod red. M.IA.Latasha. Kiev, Gosstroizdat, USSR, 1962. 134 p.
(Slag) (Concrete) (Concrete reinforcement) (MIRA 16:2)

S/133/61/000/067/013/017
A054/A129

AUTHORS: Ivanov, A. G., Candidate of Technical Sciences, Latash, Ye. M.,
Engineer

TITLE: Effect of annealing conditions on the principal properties of high-speed steels

PERIODICAL: Stal', no. 7, 1961, 637 - 642

TEXT: Prolonged annealing at 860° - 900°C was found to have an adverse effect on high-speed steels due to the stabilization of carbides caused by the loss of the ability to be adsorbed during hardening or due to the coagulation of carbides. All this results in a decrease in secondary hardness of the hardened steel after annealing and in a drop in red-heat stability; moreover, the service life of instruments made of such steels is shortened. In order to determine the causes of these phenomena, the effects of the annealing temperature (750° - 900°C) and the duration of annealing (2 - 100 hours) on the microstructure, hardness after annealing and hardening, secondary hardness, red-heat stability, hot hardness and cutting capacity of high-speed steels were investigated on steels with the following composition:

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Effect of annealing conditions on the principal...

S/133/61/000/007/013/017
A054/A129

	C	W	V	Cr	Si	Mn	S	P	Co
P9K10 (R9K10)	0.95	9.5	2.42	4.00	0.17	0.27	0.02	0.02	10.2
P9F5 (R9F5)	1.5	10.25	4.40	4.00	0.21	0.7	0.01	0.03	-
P18 (R18)	0.72	18.55	1.38	5.00	0.15	0.20	0.02	0.02	-
P9 (R9)	0.93	9.4	2.35	4.00	0.22	0.25	0.02	0.02	-

The steels were melted in an induction furnace, cast in 17-kg ingots, from which 18 x 18, 14 x 14 and 20 x 30 mm specimens were made. The experimental annealing was carried out at 750°, 800°, 850° and 900°C, with holding times of 2, 5, 10, 15, 25, 50 and 100 hours. In order to investigate only the effects of temperature and duration of annealing, the influence of cooling rate was eliminated by applying isothermal annealing. The changes of the annealing temperature in the 750° - 900°C range and of the duration of annealing had no pronounced effects on the microstructure of the test-steels after annealing and hardening, on the hardness after hardening and on the hardness after conventional three-fold annealing at 560°C, on the red-heat stability and hot hardness at 550°C. The type of carbide found after prolonged annealing was studied by X-ray analysis of the carbide-sediment of R18 grade steel in three variants: in the initial stage, after conven-

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S/133/61/000/007/013/017

A054/A129

Effect of annealing conditions on the principal...

tional annealing with short holding time after forging and after 100-hours holding time at 900°C.. In the roentgenograms of the samples treated for 100 hours the line of the stable carbide MeC(WC) was not present. The tests also revealed that higher annealing temperatures and prolonged annealing time intensified the oxidation process, mainly in the R9 and R9F5 steels. Cindering is also intensive under these annealing conditions: after annealing at 900°C for 100 hours the above-mentioned steels lost 30% of their volume on account of cinder-formation. The surface of R18 type steel is decarbonized to a ferrite structure under the new annealing conditions and the more intensive decarbonization lowers the red-heat stability of steel, because this property depends on the saturation of the solid solution with carbon and alloying elements in the course of hardening. As to hot hardness of high-speed steels and the cutting capacity of instruments made of R9K10, R18, R9F5 and R9 steels, increased temperature and duration of annealing have no pronounced effect. There are 3 figures, 4 tables and 7 references: 6 Soviet-bloc, 1 non-Soviet-bloc.

ASSOCIATION: TsNIIChM

Card 3/4

18
"Arc Spotting Arc Welding of Cast Iron" A. E. Andie and
Yu. V. Lash. "Science Progresso", 1955, (1) J.A.P.P. 1955, (1)
various single and bi-metal electrodes and without preliminary
heating of the part is considered, with special reference
to the metallurgical aspect. - 2

1-44520

PLS copy

LATASH, Yu. V.

Distr: LE2c

The Effect of Hydrogen and Oxygen on the Formation of Pores When Welding Stable Austenitic Steel and Nickel-Based Alloys
B. I. Medvedev and Yu. V. Latash
Sov. Inventor's Certificate No. 11-207 (in Russian). The welds examined contained approximately 21-24% Cr, 18-23% Ni, with and without addition of 2-7% Ti and Mo. It was found that O₂ does not cause porosity during the welding of pure austenitic steels but that it does give rise to porosity in the welding of Ni due to the formation of mixed oxides with N₂ and also because of the oxidation of carbon. H₂ causes pores in purely austenitic welds of stable austenitic steels. In the A arc welding of nickel alloys, with a W electrode, H₂ prevents porosity. The addition of TiO₂ to the flux containing CaF₂ eliminates porosity due to H₂ in purely austenitic welds. The H₂ is transformed to HF by TiF₄. Powerful oxidizers are useful for reducing the H₂ contents of austenitic welds, such oxidizers being added to the flux. — B. K.